

CT-21Z40MQ CT-21Z45MQ CT-21Z50MQ CT-21Z57MQ CT-21Z58MQ

# **COLOR TELEVISION**

# Owner's Instructions

# Important Warranty Information Regarding Television Format Viewing

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying any stationary images that exceed the above guidelines can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven CRT aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.

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## **Chapter One**

Your New TV

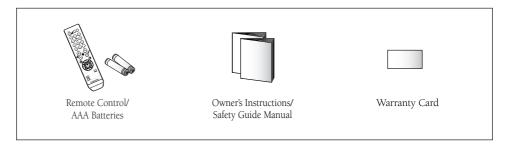
## **List of Features**

Your TV is designed with the latest technology. This TV is a high-performance unit that includes the following special features:

- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Adjustable picture and sound settings that can be stored in the TV's memory
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer

## **Accessories**

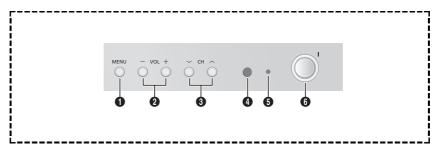
Once you have unpacked your TV, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.



## Familiarizing Yourself with the TV

#### **Control Buttons**

You can control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.



#### **MENU**

Press to see an on-screen menu of your TV's features.

**2** – VOL +

Press to increase or decrease the volume. Also used to select items on the on-screen menu.

**❸** ∨ CH ∧

Press to change channels. Also press to move between items on the on-screen menu.

Remote Control Sensor Aim the remote control towards this spot on the TV.

## 6 Indicator

## (depending on the model)

- Stand-By; Red Lights up when you turn the power off.
  - Power Off; Red
  - Power On; Off
- TIMER; Green

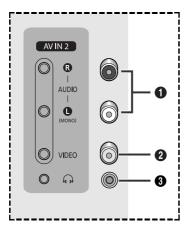
When the TV is turned on, the TIMER indicator blinks five times. This indicator illuminates when the TIMER mode is set to the "On" position after setting the clock and either the On timer or Off timer, with the remote control. Even if the power is turned off, this indicator stays lit. (Clock must be set before using this function.)

## **6** I (POWER)

Press to turn the TV on and off.

## **Connection Jacks (Side)**

You can connect an A/V component that is used only occasionally, such as a camcorder or video game. (For information on connecting equipment, see page 17.)



## **1** AUDIO Input

Connect audio signals from a camcorder or video game.

## **Q** VIDEO Input

Connect a video signal from a camcorder or video game.

## Headphone

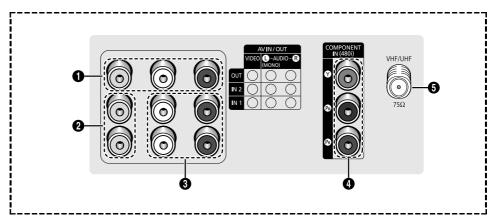
Connect a set of external headphones to this jack for private listening.

• Please be sure to match the color coded input terminals and cable jacks.

#### **Connection Jacks (Rear)**

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player.

For more information on connecting equipment, see pages 11~17.



- Please be sure to match the color coded input terminals and cable jacks.
- Audio-Video Output jacks Connect to the audio/video input jacks of a recording VCR.
- Video Input jacks Connect to the video output jacks of VCRs, DVD players and similar devices.
- 3 Audio Input jacks Connect to the audio output jacks of VCRs, DVD players and similar devices. When using the S-Video or Component Video input, connect audio jacks to "AV IN 2 (AUDIO-L/R)".

# Component Video Input jacks (Y, PB, PR)

Connect to the Component audio and video outputs of a DVD or DTV set-top box. 480i video signal input is available.

## **6** VHF/UHF

Connect to an antenna or to a cable TV system.

#### **Remote Control**

You can use the remote control up to about 23 feet from the TV. When using the remote, always point it directly at the TV.

#### O POWER

Turns the TV on and off.

#### 2 Number buttons

Press to select channels directly on the TV.

**3** -

Use to select a channel over 100, For example for channel 122, press "-",then "2" then "2".

#### 4 VOL +, VOL -

Press to increase or decrease the volume.

#### **6** MENU

Displays the main on-screen menu.

#### 6 ▲/▼/◀/▶

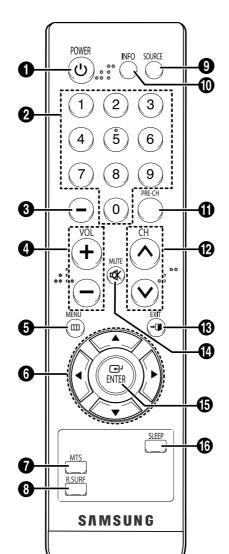
Controls the cursor in the menu.

#### **0** MTS

(Multi-channel Television Sound)
Press to choose "Stereo", "Mono",
or "SAP" (Secondary Audio
Program).
(Refer to page 42)

#### 8 R.SURF

Press to automatically return to a preferred channel after a userpreset time delay. (Refer to page 41)



#### **9** SOURCE

Press to display all of the available video sources.

#### **1NFO**

Press to display information on the TV screen.

## 1 PRE-CH

Tunes to the previous channel.

## ② CH∧, CH∨

Press to change channels.

#### ® EXIT

Press to exit the menu.

#### **@** MUTE

Press to temporarily cut off the sound.

#### **(B)** ENTER

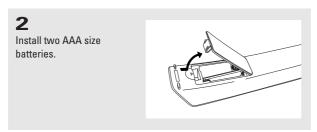
While using the on-screen menus, press ENTER to activate (or change) a particular item.

#### (6) SLEEP

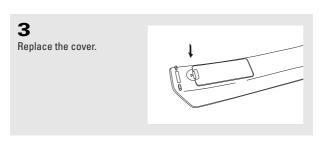
Press to select a preset time interval for automatic shut off. (Refer to page 46)

## **Installing Batteries in the Remote Control**





■ Make sure to match the "+" and "—" ends of the batteries with the diagram inside the compartment.



■ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

The remote control can be used up to about 23 feet from the TV. (Assuming typical TV usage, the batteries last for about one year.)

# Chapter Two

Installation

## **Connecting VHF and UHF Antennas**

If your antenna has a set of leads that look like this, see "Antennas with 300-ohm Flat Twin Leads" below

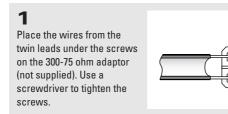


If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads" on the next page.

If you have two antennas, see "Separate VHF and UHF Antennas" on the next page.

#### Antennas with 300-ohm Flat Twin Leads

If you are using an off-air antenna (such as a roof antenna or "rabbit ears") that has 300-ohm twin flat leads, follow the directions below.



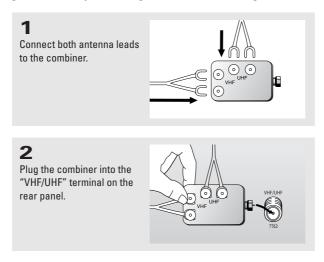


## **Antennas with 75-ohm Round Leads**



## **Separate VHF and UHF Antennas**

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires an optional combiner-adaptor (available at most electronics shops).



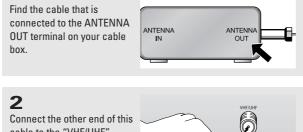
## **Connecting Cable TV**

To connect to a cable TV system, follow the instructions below.

#### **Cable without a Cable Box**



## **Connecting to a Cable Box that Descrambles All Channels**

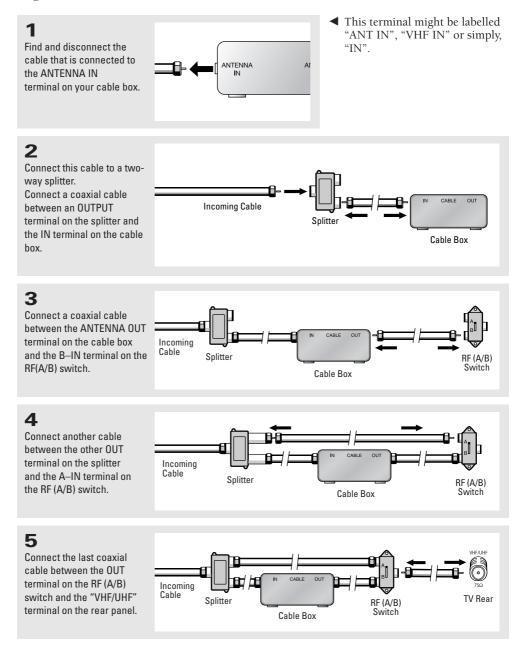


■ This terminal might be labelled "ANT OUT", "VHF OUT" or simply, "OUT".



## Connecting to a Cable Box that Descrambles Some Channels

If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of coaxial cable. (These items are available at most electronics stores.)



After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

## **Connecting a VCR**

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 11~14).

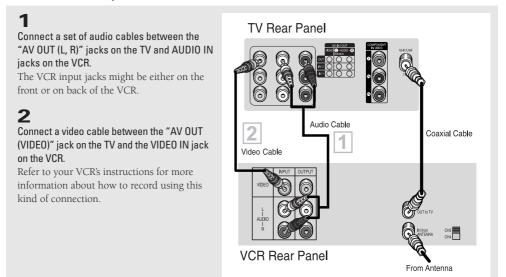
• Please be sure to match the color coded input terminals and cable jacks.

TV Rear Panel Connect a coaxial cable between the "VHF/UHF" terminal on the TV and the antenna out terminal on the VCR. A coaxial cable is usually included with a VCR. (If not, check your local electronics store). Coaxial Cable Connect a set of audio cables between the Audio Cable "AV IN 1 (L, R)" (or "AV IN 2 (L, R)") jacks on the TV and AUDIO OUT jacks on the VCR. If you have a mono VCR, connect L(mono) to VCR audio out using only one audio cable. Video Cable Connect a video between the "AV IN 1 (VIDEO)" "AV IN 2 (VIDEO)" jack on the TV and the VIDEO OUT jack on the VCR. Refer to your VCR's instructions for more information about how to view your VCR VCR Rear Panel From Antenna

• Also, you can connect to "AV IN 2" on the side panel of TV.

## Connecting a Second VCR to Record from the TV

Your TV can send out signals of its picture and sound to be recorded by a second VCR. To do this, connect your second VCR as follows:



## **Connecting a DVD Player**

The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

• Please be sure to match the color coded input terminals and cable jacks.

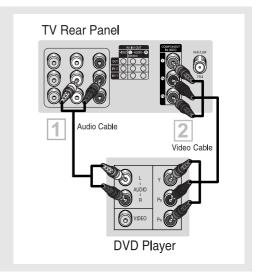
## Connecting to Y, PB, PR

1

Connect a set of audio cables between the "AV IN 2 (L, R)" jacks on the TV and the AUDIO OUT jacks on the DVD player.

2

Connect a set of video cables between the "COMPONENT IN (Y, PB, PR)" jacks on the TV and the COMPONENT VIDEO OUT (Y, PB, PR) jacks on the DVD player. For an explanation of Component video, see your DVD player's owner's instruction.



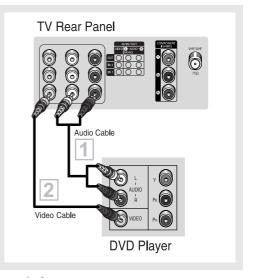
## **Connecting to Regular Audio and Video Jacks**

4

Connect a set of audio cables between the "AV IN 1 (L, R)" (or "AV IN 2 (L, R)") jacks on the TV and the AUDIO OUT jacks on the DVD player.

2

Connect a video cable between the "AV IN 1 (VIDEO)" (or "AV IN 2 (VIDEO)") jack on the TV and the VIDEO OUT jack on the DVD player.

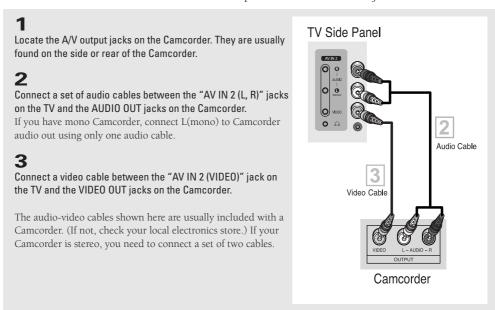


• Also, you can connect to "AV IN 2" on the side panel of TV.

## **Connecting a Camcorder**

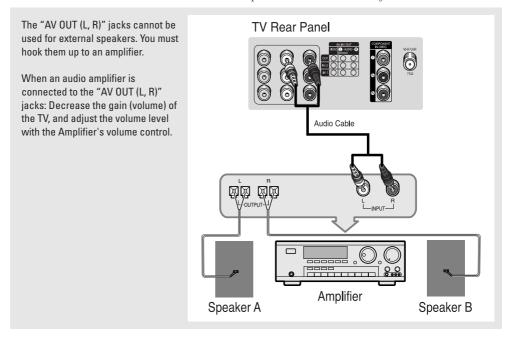
The side panel jacks on your TV make it easy to connect a Camcorder to your TV. They allow you to view the Camcorder tapes without using a VCR.

• Please be sure to match the color coded input terminals and cable jacks.



## **Connecting to an Analog Amplifier**

• Please be sure to match the color coded input terminals and cable jacks.



## **Chapter Three**

**OPERATION** 

## **Turning the TV On and Off**

Press the " ■ " button (On/Off) on the front of the television.

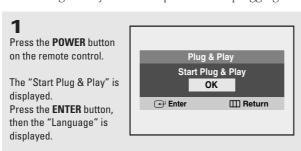
Press the **POWER** button on the remote control to switch the television on.

Caution: One pole switch is totally not off (one line still live) if power cord is not unplugged.

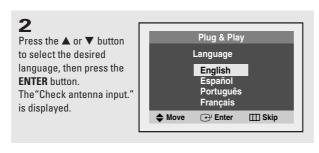
## **Plug & Play Feature**

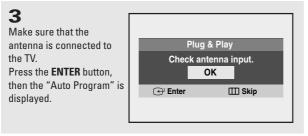
When the TV is initially powered On, basic customer settings proceed automatically and subsequently: Setting the language, Antenna input check, Channel Memorize and Time Setting.

• The Plug & Play function operates after plugging in the TV for first time.



- ◆ Plug & Play feature doesn't work in the AV mode.
- Even if ENTER button is not pressed, the "Language" will be displayed automatically.





continued...

## OPERATION



Press the ENTER button to

The TV begins memorizing all available channels.



Press the ENTER button to



After all available channels are stored, the "Clock Set" is displayed.

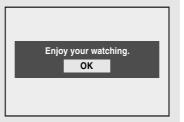
Press the ◀ or ▶ button to move to the hour or minute. Set the clock by pressing the ▲ or ▼ button.



■ Refer to "Setting the Clock" on page 33.



When you have finished, press the **MENU** button. The "Enjoy your watching." is displayed.



If you want to reset this

- (1) Press the MENU button.
- (2) Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

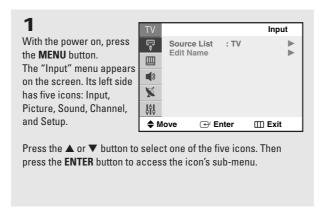
(3) Press the ENTER button. The "Start Plug & Play" is displayed.

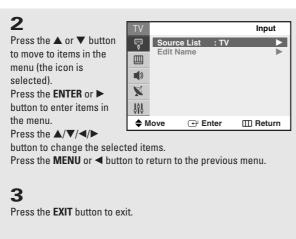
The "Plug & Play" is selected.



## Viewing the Menus and On-Screen Displays

## Viewing the Menus

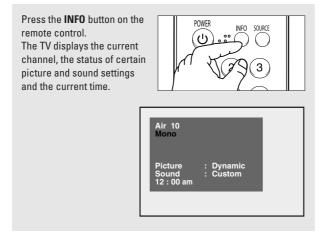




■ You can also use the MENU, VOL+/- and CH ^/ buttons on the control panel of the TV to make selections.

## Viewing the Display

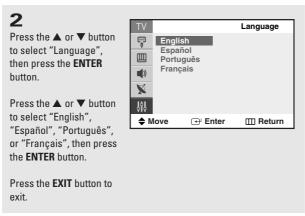
The display identifies the current channel and the status of certain audio-video settings.



English - 20

## Selecting a Menu Language



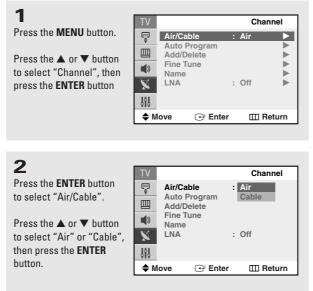


## **Memorizing the Channels**

Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH and CH buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

## **Selecting the Video Signal Source**

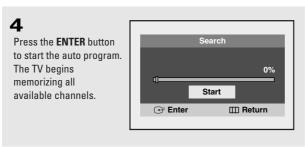
Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

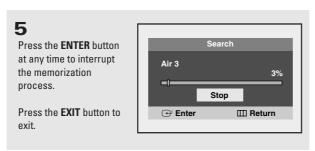


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## **Storing Channels in Memory (Automatic Method)**



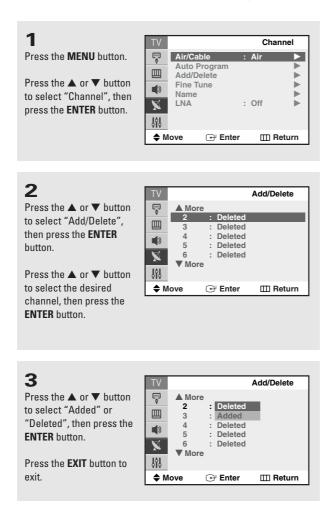




 All available channels are automatically stored in memory when channels are selected by the direct tuning function. ■ The TV must be connected to an antenna in order to receive TV signals. Even if a particular channel is deleted from the memory, you can always tune to that channel directly by using the number buttons on the remote control.

## **Adding and Erasing Channels**

To add channels that were not memorized (or to delete unwanted channels from memory):



## **Changing Channels**

## **Using the Channel Buttons**

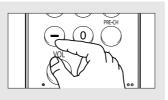
Press the  $\mathbf{CH} \wedge$  or  $\mathbf{CH} \vee$  button to change channels.

When you press  $CH \land$  or  $CH \lor$ , the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

## Using the "-" Button

The "-" button is used to select channels that broadcast a analog.

For example, for channel 7 (analog), press "7", then "-", then "1".



## Using the PRE-CH Button to Select the Previous Channel

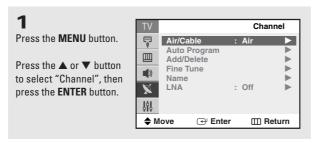
Press the **PRE-CH** button. The TV changes to the last channel you were watching.



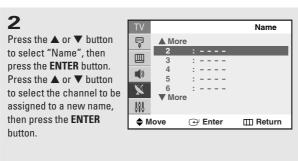
■ To quickly switch between two channels that are far apart, tune to one channel, then use the number buttons to select the second channel. Then, use the PRE-CH button to quickly alternate between them.

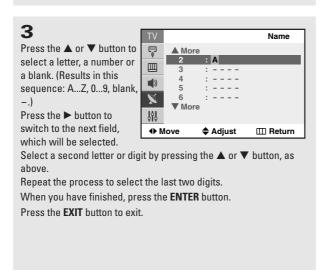
## **Labelling the Channels**

Use this feature to assign an easy-to-remember label to any channel (i.e., "CBS", "ESPN", "PBS2", "CNN1", etc.). A label consists of four fields, where each field is a letter, a number or a blank. When the **INFO** button is pressed, the channel label will appear next to the channel number.



■ You cannot select "Name" in the AV mode.



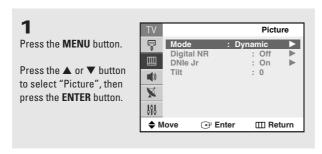


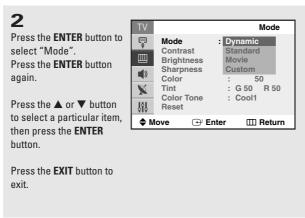
## **Picture Control**

You can select the type of picture which best corresponds to your viewing requirements.

## **Using Automatic Picture Settings**

Your TV has automatic picture settings ("Dynamic", "Standard", and "Movie") that are preset at the factory. You can activate either Dynamic, Standard, or Movie by making a selection from the menu. Or, you can select "Custom" which automatically recalls your personalized picture settings.

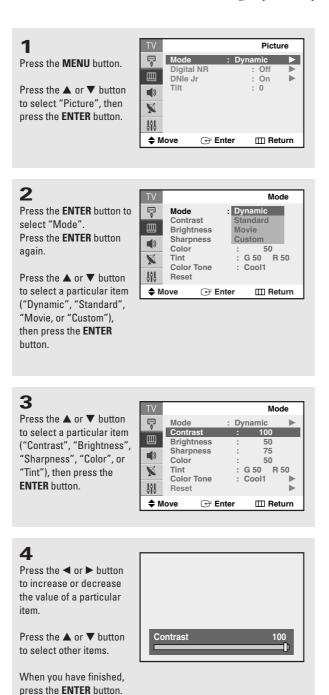




- Choose "Dynamic" for viewing the TV during the day or when there is bright light in the room.
- Choose "Standard" for the standard factory settings.
- Choose "Movie" when viewing a movie.
- Choose "Custom" if you want to adjust the settings according to personal preference.

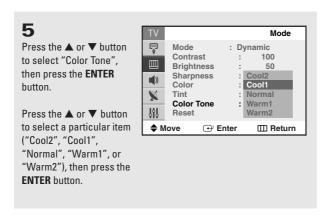
## **Customizing the Picture**

You can use the on-screen menus to change the "Contrast", "Brightness", "Sharpness", "Color", "Tint", and "Color Tone" according to personal preference.

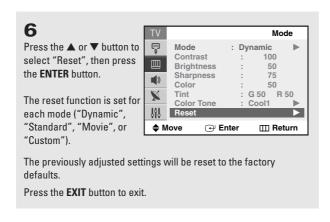


continued...

#### OPERATION



## **Resetting the Picture Settings to the Factory Defaults**



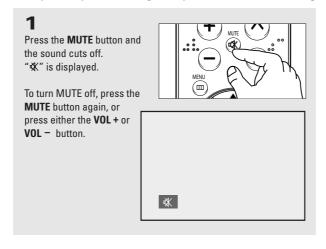
## **Sound Control**

## **Adjusting the Volume**

Press the  ${\bf VOL}$  + or  ${\bf VOL}$  - buttons to increase or decrease the volume.

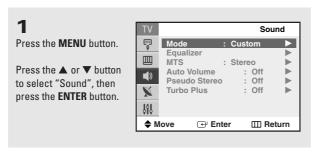
## **Using the MUTE Button**

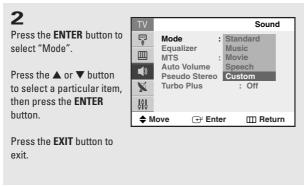
At any time, you can temporarily cut off the sound using the MUTE button.



## **Using Automatic Sound Settings**

Your TV has automatic sound settings ("Standard", "Music", "Movie", and "Speech") that are preset at the factory. You can activate either Standard, Music, Movie or Speech by making a selection from the menu. Or, you can select "Custom," which automatically recalls your personalized sound settings.

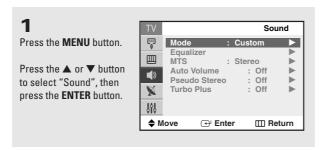


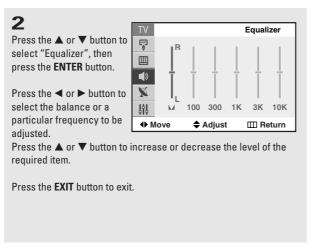


- Choose "Standard" for the standard factory settings.
- Choose "Music" when watching music videos or concerts.
- Choose "Movie" when watching movies.
- Choose "Speech" when watching a show that is mostly dialog (i.e., news).
- Choose "Custom" to recall your personalized settings.

## **Customizing the Sound**

The sound settings can be adjusted to suit your personal preferences. (Alternatively, you can use one of the automatic settings. See page 31.)

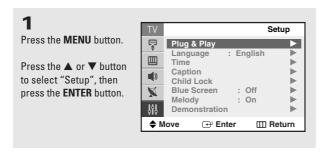




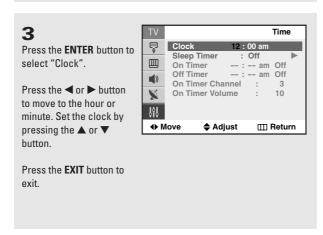
- If you make any changes to the equalizer settings, the sound mode is automatically switched to the "Custom" mode.
- "L/R" Sound Balance Adjustment To adjust the sound balance of the L/R speakers.
- Bandwidth Adjustment (100, 300, 1K, 3K, 10K) To adjust the level of different bandwidth frequencies.

## **Setting the Clock**

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the INFO button.)





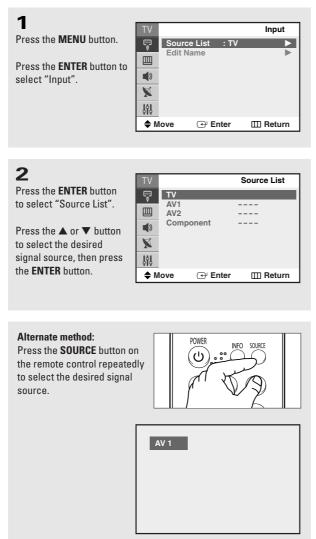


■ The current time will appear every time you press the INFO button.

## **Viewing an External Signal Source**

Use the remote control to switch between viewing signals from connected equipment, such as a VCR, DVD, set-top box, and the TV source (broadcast or cable).

## **Setting the Signal Source**



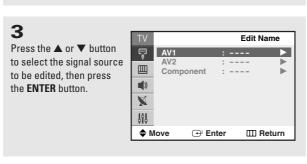
## **Assigning Names to External Input Mode**

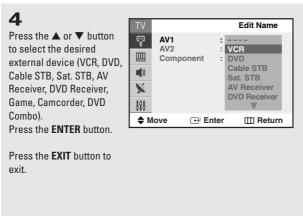


Input

Ⅲ Return





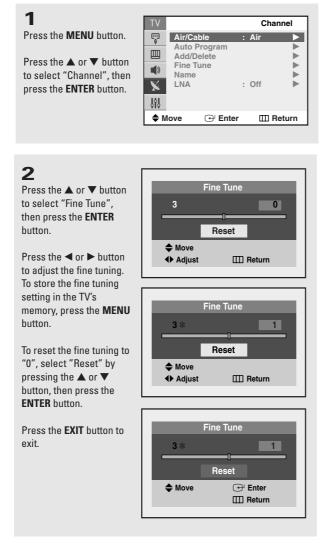


# **Chapter Four**

SPECIAL FEATURES

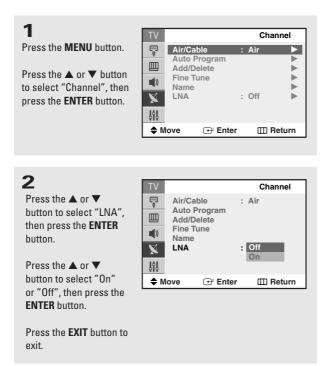
## **Fine Tuning Channels**

The Fine Tuning function lets you manually adjust the TV's tuner if you have difficulty tuning channels.



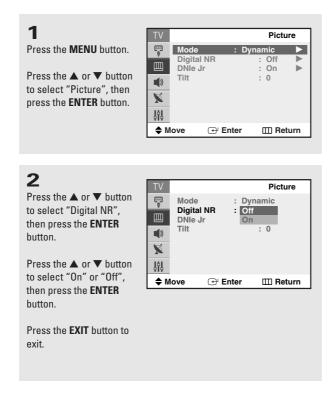
# LNA (Low Noise Amplifier) (depending on the model)

When a weak broadcast signal causes an unclear, noisy picture, the "LNA" feature improves the picture quality by setting to "On". If you experience noise on a certain channel, set the "LNA" to "On" or "Off" for this channel, to obtain the optimum picture.



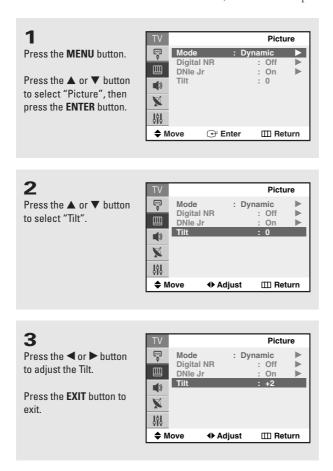
# **Digital Noise Reduction**

If the signal received by the television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.



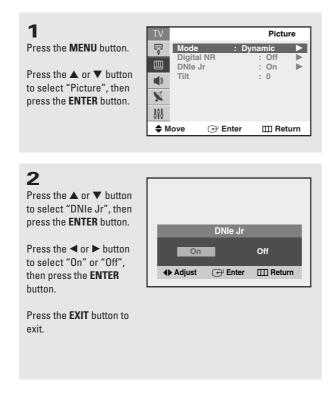
## Tilt (depending on the model)

Due to the Earth's magnetic field there may be some minor image tilt depending on the TV's location. When this occurs, follow the steps below.



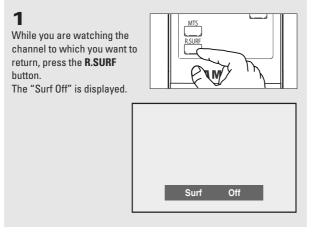
# DNIe Jr™ (Digital Natural Image engine) DNIEJr (depending on the model)

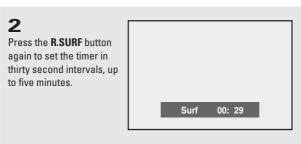
This feature brings you more detailed image with detail enhancement, contrast enhancement and white enhancement. New image compensation algorithm gives brighter, clearer, more detailed image to you. DNIe Jr technology will fit every signal into your eyes.



#### **Using the R.Surf Feature**

This feature allows you to set the TV to return to a particular channel after a certain amount of time. For example, you may be watching a channel when commercials start. You can set the R.Surf to "5 minutes", then switch channels. After minutes, the TV will return to the original channel. To use the R.Surf feature:





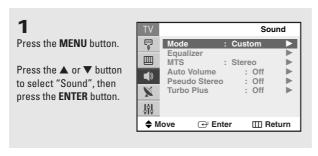
■ The time will start decreasing while you are setting up the timer, and will reset after 5 minutes has passed or you turn it off.

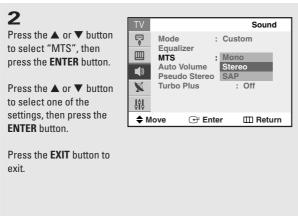


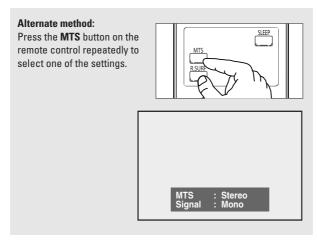
The time you set will begin counting down on the screen. When the time runs out, the TV will return to the channel you were watching when you set the timer.

#### **Choosing a Multi-Channel Sound (MTS) track**

Depending on the particular program being broadcast, you can listen to Mono, Stereo, or SAP.







- Choose "Mono" for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose "Stereo" for channels that are broadcasting in stereo.
- Choose "SAP" to listen to the Separate Audio Program, which is usually a foreign-language translation.

# Extra Sound Settings (Auto Volume, Pseudo Stereo, or Turbo Plus)

The following sound settings can be adjusted to suit your personal preferences

#### • Auto Volume

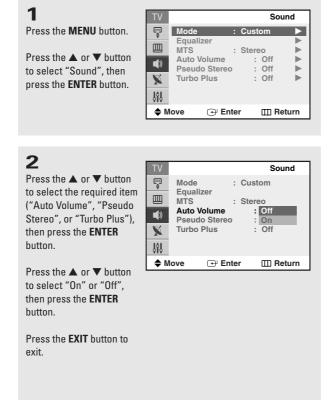
Each broadcasting station has its own signal conditions, which can make it necessary to adjust the volume every time the channel is changed. "Auto Volume" lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

#### · Pseudo Stereo

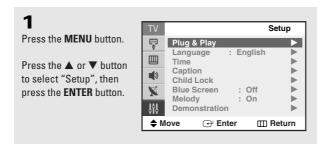
"Pseudo Stereo" converts a monaural sound signal into two identical left and right channels. Once the "Pseudo Stereo" is set to "On" or "Off", the setting applies to the sound effects such as "Standard", "Music", "Movie" and "Speech".

#### Turbo Plus

"Turbo Plus" emphasizes the bass and treble frequencies to add fullness to the sound.



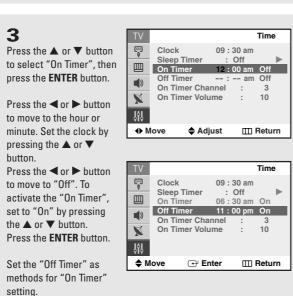
## **Setting the On/Off Timer**



You must set the clock first.



 The current time will appear every time you press the INFO button.



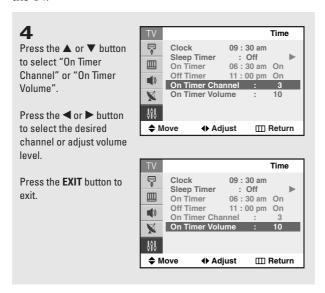
■ Auto Power Off

When you set the timer "On", the TV will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer "On" mode and prevents overheating, which may occur if a TV is on for too long.

continued...

#### **Setting the Preferred Channel and Volume Level**

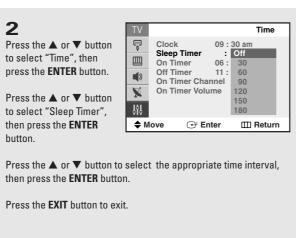
The preferred channel and volume can be set for when the timer automatically turns on the TV.

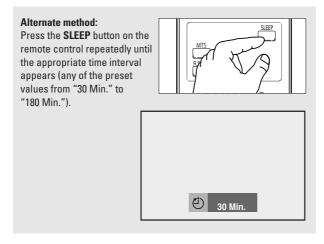


## **Setting the Sleep Timer**

The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).





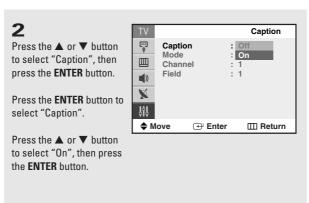


■ After about 5 seconds, the sleep display will disappear from the screen, and the time interval will be set.

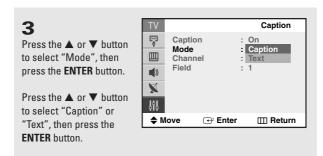
# Viewing Closed Captions (On-Screen Text Message)

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so homerecorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging; [CC].





Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.

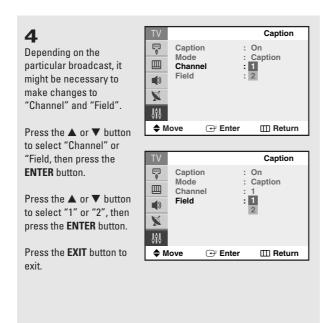


In "Caption" mode, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture.

In "Text" mode, information unrelated to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

continued...

#### SPECIAL FEATURES

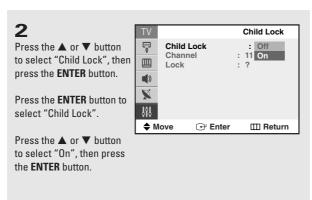


■ Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.)

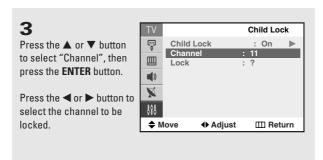
# Locking the Channel (depending on the model)

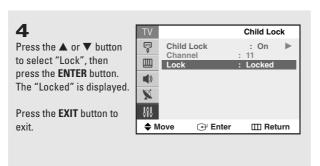
This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. Child Lock cannot be released using front (or side) panel buttons. Only remote control can release the Child Lock setting, so keep the remote control away from children.





■ If you want to unlock a channel, set to "Off".





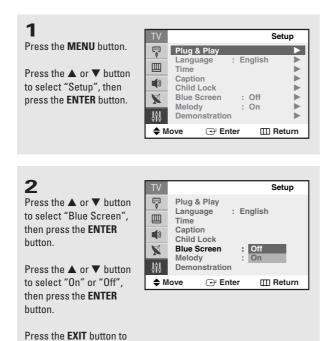
■ If any channel is locked, you can not access to the "Channel" and "Child Lock" menu by using the control buttons on the TV panel (the "Not Available" is displayed in the "Child Lock" menu). You can access by using the remote control only.

English - 49

exit.

## **Setting the Blue Screen Mode**

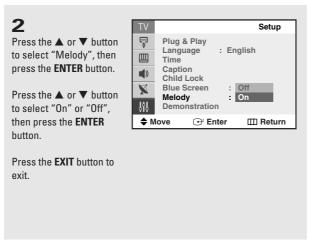
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".



## **Setting the On/Off Melody**

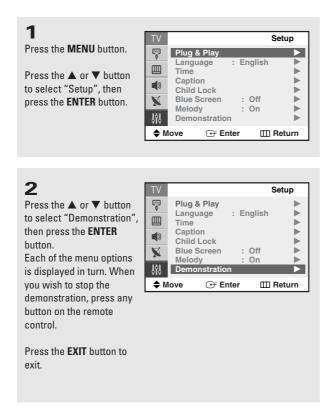
You can hear a melody sound when the TV is powered on or Off.





## **Viewing the Demonstration**

To become familiar with the various menus provided by your television, you can view the in built demonstration.



# Chapter Five

TROUBLESHOOTING

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest Samsung authorized service center.

## **Identifying Problems**

Problem	Possible Solution		
Poor picture.	Try another channel. Adjust the antenna. Check all wire connections.		
Poor sound quality.	Try another channel. Adjust the antenna.		
No picture or sound.	Try another channel. Press the <b>SOURCE</b> button. Make sure the TV is plugged in. Check the antenna connections. Make sure the <b>MUTE</b> button is off.		
No color, wrong colors or tints.	Make sure the program is broadcast in color. Adjust the picture settings.		
Picture rolls vertically.	Adjust the antenna. Check all wire connections. If you are using a VCR, check the tracking.		
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.		
Your remote control does not operate your TV.	Make sure the remote has batteries. Check that the "+" and "-" ends of the batteries are inserted correctly. Check that the batteries are drained.		
The TV won't turn on.	Make sure the wall outlet is working. Make sure the TV is plugged in. Make sure the remote has batteries.		

# **Appendix**

#### **Cleaning and Maintaining Your TV**

Please follow these guidelines to get the maximum performance from your TV.

#### **Placement**

- Do not place the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- Place the TV in a vertical position only.

#### Liquids

• Do not handle liquids near or on the TV. Liquids that spill into it can cause serious damage.

#### **Cabinet**

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

#### **Temperature**

 If your TV is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

## **Using Your TV in Another Country**

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

#### **Specifications**

Model	CT-21Z40MQ	CT-21Z45MQ	CT-21Z50MQ	CT-21Z57MQ	CT-21Z58MQ
Voltage	AC100-240V	AC100-240V	AC100-240V	AC100-240V	AC100-240V
Frequency of Operation	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power Consumption	100 Watts	100 Watts	100 Watts	100 Watts	100 Watts
Dimensions (mm/inches)	416 x 604 x 472 / 16.38 x 23.78 x 18.58	350 x 604 x 472 / 13.76 x 23.78 x 18.58	604 x 340 x 473 / 23.78 x 13.39 x 18.62	604 x 340 x 473 / 23.78 x 13.39 x 18.62	585 x 329 x 465/ 23.03 x 12.95 x 18.30
Weight (Kg/ lbs)	18.5 / 40.79	18.7 / 41.23	19.5 / 43.00	20.5 / 45.20	19.35 / 42.65
Viewing screen size	508mm	508mm	508mm	508mm	508mm

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#### **Contact SAMSUNG WORLD-WIDE**

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Samsung Electronics Phils. Corp. 1800-10-SAMSUNG (7267864) www.samsung.com/ph